

Plenary Session—Exhibit Hall D

7:00 AM Registration

8:30 AM

Welcome and Opening Remarks

Samuel N. Luoma, CALFED & USGS

8:40 AM

Seagrass Restoration Studies in Florida:

Lessons Learned about Site Selection and Monitoring Programs

Susan Bell, University of South Florida, Tampa, FL

9:10 AM

Beyond California— Observations on Science in Other Restoration/Water Management Programs

Kim Taylor, CALFED Bay-Delta Program

Ocean Conditions, Estuaries, and the Bottleneck Theory of Salmon Management

Dan Bottom, National Marine Fisheries Service, Newport, OR

10:10 AM

BREAK

10:30 AM

The Role of Science in Ecologically Sustainable Water Management

Brian Richter, The Nature Conservancy

11:00 AM

Science in Support of Ecosystem Restoration: A Tribute to Aretha Franklin

James Cloern, U.S. Geological Survey, Menlo Park, CA

The Conflicted Boundaries Between Science and Policy

Helen Ingram, University of California, Irvine

12:00 PM

LUNCH

Concurrent Session—Room 204

Function and Effects of Flooded Islands

Session Chair: Lisa Lucas, USGS

Effects of the Tides, Geometry, Meteorology, and Project Operations on Circulation and Mixing in a Flooded **Island Environment: Lessons from** Mildred Island

Jon Burau, USGS

1:00 PM

1:20 PM

1:40 PM

2:20 PM

3:00 PM

Circulation and Mixing within Delta Flooded Island Habitats: Implications for **Ecosystem Restoration**

Nancy Monsen, USGS

Spatial and Seasonal Variability in the **Hydrodynamics of Shallow Water Habitats in the Delta**

Mark Stacey, UC Berkeley

2:00 PM Sherman Lake: A Case Study in Circulation and Mixing in a Shallow Estuarine Environment Catherine Ruhl, USGS

Concurrent Session—Exhibit Hall D

Adaptive Assessment of Restoration Programs Session Chair: Jeff Mount, UC Davis

A Whole System Approach to **Geomorphic Monitoring and Adaptive** Management, Cosumnes River, CA

Jeff Mount, UC Davis

River Restoration Decision Support System-Application in the Salmon River Sub-Basin, Idaho

J. Carter Borden*, Romberg Tiburon Center,

Assessment of Species Response to Restoration and Water Management Warren Shaul, Jones & Stokes

Measuring Bay-Delta Health: The Bay **Region Ecological Scorecard** Anitra Pawley, The Bay Institute

Concurrent Session—Room 203

Fish Passage Facilities and Operation

Session Chairs: Joseph Cech, Jr., UC Davis, and Marcin Whitman, NMFS

Technical Advances and Results of Fish Passage Research on Internal Screw-Type Lifts and Pumps in California Charles Liston, USBR

Average Channel Velocity and Delta Smelt Louver Efficiency at the Tracy Fish Collection Facility: Improving Facility **Operations and Delta Smelt Salvage**

Close Encounters with a Fish Screen: **Anatomy of an Impingement** David White, NOAA Fisheries

Mark Bowen, USBR

Close Encounters with a Fish Screen: Linking Laboratory and Field Studies on Juvenile Chinook Salmon Christina Swanson, UC Davis

Concurrent Session—Room 202

Effects of Nonnative Invasive Species

Session Chairs: Kim Webb, FWS, and Erin Williams, FWS

What Distinguishes A High-Impact Invader? Heather Peterson*, Romberg Tiburon Center,

SFSU

Spread of Exotic Cordgrasses and

Hybrids (Spartina sp) in the Tidal **Marshes of San Francisco Bay** Debra Ayres, DWR

The Impact of Invasive Spartina on San Francisco Bay Song Sparrow **Populations: Direct and Indirect** Influences

J. Cully Nordby, UC Berkeley

Feeding Ecology and Potential Predatory Impact of Tortanus dextrilobatus, an Invasive Carnivorous Copepod in the **San Francisco Estuary**

Rian Hooff*, Romberg Tiburon Center, SFSU

BREAK

2:40 PM Circulation in Honker Bay, A Natural **Shallow Water Habitat** Jessica Lacy, USGS

Bay-Delta Geometry: The Shape of Things

and Their Impact on Salinity Mixing Christopher Enright, DWR

3:20 PM **Prediciting Restored Habitats: The Physical Evolution of Tidal Wetlands in Breached Sites**

Michele Orr, Philip Williams & Associates

3:40 PM **Changes in Carbon Dynamics Over Time** in a Restored Wetland in the Delta Robin Miller, USGS

Examples of Adaptive Management in Action: Linking Monitoring to Project Objectives and Implementation Daniel Efseaff, Sacramento River Partners

CALFED ERP Projects Review— A Look Back

Vance Russell, Kleinschmidt Associates

The Adaptive Management Forum for Large-Scale Channel and Riverine **Habitat Restoration Projects: A Collaborative Peer Review Process** Rhonda Reed, CALFED Bay-Delta Program

Using the Ecosystem Management Decision Support System Together with a Comprehensive Watershed Data Management Tool to Target Restoration Opportunities and to Support AM in **Battle Creek**

Michael Ward, Terraqua, Inc.

Validation of an Individual-Based **Movement Model for Fish Extraction Facilities**

Bertrand Lemasson*, Utah State Univ.

Hydrodynamic Field Investigation on the San Joaquin River Near the Head of Old **River Barrier** Jay Cuetara, USGS

Effects of Auxiliary Flows (Pumped Across Grant Line Canal Barrier) on the San Joaquin River Dissolved Oxygen Levels

Hari Rajbhandari, DWR

Evaluating Entrainment Vulnerability to Agricultural Irrigation Diversions: A Comparison Among Open Water Fishes Matt Nobriga, DWR

Recent Investigations of Introduced Species in the Foodweb of the San Francisco Estuary

Wim Kimmerer, Romberg Tiburon Center, SFSU

Carbon, Crustacea and Carnivory: Using **Stable Isotopes to Discern the Trophic Ecology of the Chinese Mitten Crab in** its New Home in San Francisco Bay Deborah Rudnick*, UC Berkeley

Ontonogenetic Feeding Shifts in Native and Alien Fish in the Cosumnes River Watershed

Beth Chasnoff*, UC San Diego

Cattle Grazing in Vernal Pool Grasslands: Can We Increase the Diversity of Native Plant Species by Reducing the Abundance of Exotics? Jaymee Marty, TNC

* Denotes student presenter

JANUARY 15, 2003 Concurrent Session—Room 204 Concurrent Session—Room 202 Concurrent Session—Room 105 Concurrent Session—Room 203 **Function and Effects of** From Mining to Microbes: Riparian Restoration Recent Research Unraveling the Mercury Cycle in Flooded Islands Session Chair: Greg Golet, on California Salmonids the San Francisco Bay Watershed (continued) The Nature Conservancy Session Chair: Ken Lentz, USBR Session Chair: Lisa Lucas, USGS Session Chair: Mark Marvin-DiPasquale, USGS **Traditional Resource Management and Strong Diel Patterns of Phytoplankton Assessment of Hg Contributions from Demography, Distribution, and Habitat** 8:30 AM **Ecological Restoration of Riparian and** Historic Mercury and Gold Mine Sites in Biomass in a Tidal Flooded Island: High Use of Juvenile Steelhead in a Large, Frequency and "Fast Biology" **Wetland Areas** the Sulphur Cr Mining District to the **Regulated River** Tara Schraga, USGS Michelle Stevens, DWR Cache Cr Watershed, Comparisons with Ryon Kurth, DWR **Other Mercury Sources and Implications** for Remediation Activities Ronald Churchill, CGS **Spatial Variability of Phytoplankton Using Ecosystem Function to Measure the Mercury Loading From the Upper Cache** Sediment and Salmon: Use of Gravel 8:50 AM **Creek Mining Districts Dynamics in a Tidal Flooded Island** Success of Riparian Forest Restoration: A Permeability to Assess Survival-to-Case Study from the Sacramento River **Emergence in Artificial Redds** Cary Lopez, USGS Tom Suchanek, FWS David Wood, CSU Chico Frank Ligon, Stillwater Sciences **New Otolith Carbon Isotope Method to** The Distribution and Temporal Trends **Reproductive Phenology and Mercury and Methylmercury** 9:10 AM in Corbicula fluminea Biomass and Concentrations and Loads in the Cache Distinguish Tributary and Delta Use in **Groundwater Requirements for** What They Tell Us About the Function **Seedlings of Three Pioneer Riparian** Creek Watershed, CA, January 2000 Juvenile Chinook Salmon in the Sacramento-San Joaquin River System of Habitats **Species on the Lower Tuolumne River** through May 2001 Janet Thompson, USGS John Stella*, Stillwater Science Joseph Domagalski, USGS Peter Weber, UC Berkeley **Preliminary Results of Mercury and Insights Gained from Top-Down Food** The Interaction of Biological and **Emigration Timing, Abundance and Life** 9:30 AM Web Investigations in the Delta **Physical Processes and the Long-Term Methylmercury Transport Studies in the History of Juvenile Winter Chinook** Lenny Grimaldo*, DWR and SFSU Survival of Riparian Forests at the San Bear River and Yuba River Watersheds, Salmon Passing the Red Bluff Diversion Joaquin River National Wildlife Refuge 1999-2002 Dam, 1995-1999 F. Thomas Griggs, Sacramento River Partners Charles Alpers, USGS Phillip Gaines, FWS **Should We Create More Permanent Landscape Scale Analysis of Valley Oak Spatial and Temporal Trends of Solid** The Sacramento River Winter Chinook 9:50 AM Shallow Water Habitat in the Delta? **Restoration at the Cosumnes Phase Methyl and Total Mercury** Carcass Survey and its Use in Evaluating the Supplementation Program at the **Example: McCormack Williamson Tract River Preserve** in the Delta

10:10 AM BREAK

Patrick Crain, UC Davis

Island Habitats

Delta: A Commentary

Delta Flooded Islands

Lauren Hastings, DWR

Marshes of the Delta

Denise Reed, Univ. of New Orleans

Peter Moyle, UC Davis

10:30 AM

10:50 AM

11:10 AM

11:30 AM

11:50 AM

1:00 PM

1:20 PM

1:40 PM

3:00 PM

3:20 PM

3:40 PM

Biogeochemical Cycling of Nutrients

An Overview of CALFED Ecosystem

and Trace Elements in Flooded

Martina Doblin, Old Dominion Univ., VA **Sacramento River** Alexander Fremier*, UC Davis

Progress on Development of Spatial Dissolved and Particulate Selenium Modeling Tools for Riparian Landscape Dynamics in Mildred's Island: Biotic Controls on a Trace Element Cycle Restoration and Impact Assessment on Gregory Cutter, Old Dominion Univ., VA the Sacramento River Steven Greco, UC Davis

Linking Hydrological and Biological The Future of Flooded Islands in the **Dynamics in Riparian Landscapes: Empir**ical Models, Predictions and Uncertainty Elizabeth Crone, Univ. of Montana

Kaylene Keller*, UC Davis

Chronosequence Analysis of

Patch Dynamics on the Middle

Cottonwood Recruitment and Riparian

Lessons Learned from Restoring the Restoration Program Plans for Restoring Tuolumne River: At the End of the Day **Project Success is when Design and Construction Come Together** Tony Barela, HDR, Inc.

Microbial Mercury Cycling in Sediments of the Delta Mark Marvin-DiPasquale, USGS

Wesley Heim, Moss Landing Marine

Laboratories

Investigation of Potential Mercury "Translators" Between Aqueous Mercury Fractions, Low Trophic Level Bioindicators, and Large Fish in the Cache Cr. Watershed Darell Slotton, UC Davis

Mercury in Sport Fish from the **Delta Region** Jay Davis, SFEI

Field Assessment of Mercury Exposure of Aquatic Birds in the Delta Ecosystem **Using the Avian Egg** Steven Schwarzbach, USGS

Migration Patterns of Chinook Salmon Smolts in the North, Central, and South **Delta Using Radio Telemetry: Results of** Research Performed in 2000-2002 David Vogel, Natural Resource Scientists, Inc.

Livingston Stone National Fish Hatchery

Kevin Niemela, FWS

Population Genetic Structure of Fall-Run Chinook in the Santa Clara **Valley Watershed** Kevin Williamson*, UC Davis

Provenance Analysis of Chinook Salmon in the Santa Clara Valley Watershed Dino Garcia-Rossi, UC Davis

Temporal Variation in Microsatellite Allele Frequencies Indicates Increasing Effective Number of Breeders in an Endangered Salmon Population Dmitri Churikov, UC Davis

River Channel Restoration Wetlands: Past, Present and Futur e Session Chair: Peter Green, UC Davis Session Chair: G. Mathias Kondolf, **UC** Berkeley

Trends in the Sediment Yield of the **Lessons Learned from Gravel** Sacramento River, 1957-2001 **Augmentation Programs in Central** Scott Wright*, USGS **Valley Rivers** G. Mathias Kondolf, UC Berkeley

A Multi-Year Record of Sedimentary A Sediment Flux Model for Assessing **Processes and Marsh Surface Elevation** the Long-Term Impacts of Proposed Change in Restored and Ancient Tidal **Rehabilitation Strategies in Large Rivers** Michael Singer*, UC Berkeley

Effects of Natural and Anthr opogenic Processes on Water Quality Session Chair: Brian Bergamaschi, USGS

Sources of Oxygen Demand in the San Joaquin River Peggy Lehman, DWR

Tracing Nitrate Sources, Transformation,

Through the Delta, and Within the Bay

and Sinks from the Central Valley,

Using Stable Isotope Techniques

Evaluation of Unknown Organic

Contaminants in the San Francisco

Carol Kendall, USGS

Dissolved Oxygen TMDL of San Joaquin River Carl Chen, Systech Engineering, Inc.

Bay-Delta Watershed Session Chair: Larry Brown, USGS **Effects of Anthropogenic Ammonium**

Trophic Ecology in the

Input and Flow on Primary Production in San Francisco Bay Richard Dugdale, Romberg Tiburon Center, SFSU The Effect of Spatial and Temporal

Variability in Food Concentration on the Behavior, Feeding Physiology and Egg **Production of the Estuarine Copepod** Acartia sp.

Alexander Bochdansky, Romberg Tiburon Center, SFSU

Acartia spp. Copepods as Protozoan-Metazoan Food Web Links in San Francisco **Bay: Microplankton Prey Communities and Copepod Feeding Dynamics 1997-2000** Gretchen Rollwagen-Bollens*, UC Berkeley

The Tidal Marsh Food Web: Species-**Level Interactions and Trophic Flows Between Marsh Habitats** J. Letitia Grenier*, UC Berkeley

Daniel Oros, SFEI

LUNCH

and Historical Marshes of San Francisco **Physical Processes and Conservation Estuary, and More Pristine Brackish Strategies Marshes Along the Central CA Coast** Christopher Kitting, CSU Hayward 2:00 PM

Processes of Geomorphic Evolution in a San Pablo Bay Restored Tidal Marsh Stuart Siegal, Wetlands Water Resources

Carbon Storage and Sediment Accretion

in Restored Wetlands on Twitchell Island

Transitional Habitats in Tidal Marsh

Flat Formation on Tolay Creek, San

Restoration: Avian Response to Mud

Isa Woo, Humboldt State Univ. Foundation

The Effect of Channel Order on Fish

Tammie Visintainer*, Romberg Tiburon

and Diet in a Tidal Marsh

Abundance, Community Composition,

ing and Short-Term Processes

Bernard Bauer, USC

Judy Drexler, USGS

Pablo Bay

Center, SFSU

Initial Ecological Comparisons of Restored

Ingrid Morken, UC Berkeley

Oxbow Lakes of the Sacramento River:

Watershed Environmental Hydrology **Model for Upper Cosumnes River**

Watersheds ZhiQiang Chen, UC Davis

BREAK

Estuary

Potential Effects of Wetland Restoration on Subsided Peat Soils: Release of **Dissolved Organic Carbon and Disinfection Byproduct Precursors** Roger Fuji, USGS

Assessment of Processes Affecting Dissolved Organic Carbon Loads in Drainage Water on Twitchell Island Steven Deverel, HydroFocus, Inc.

Estimating Dissolved Organic Carbon (DOC) Concentrations in the Delta with **Limited Data** Jamie Anderson, DWR

The Contribution of Natural and **Restored Wetlands to Changes in Dissolved Organic Material in the Delta** and Estuary Brian Bergamaschi, USGS

Landscape Level Influences on Aquatic Insects and Food Web Structure in the **Cosumnes Watershed** Edwin Grosholz, UC Davis

Affects of Land Use and Dams on **Stream Food Web Ecology** Kateri Harrison*

Documenting Physical/Biological Patch Structures During 2000 and 2001 USGS San Francisco Bay Hydrographic Surveys Using Alongtrack Data: Toward Characterizing Three Decades of Hydrographic Data Karen Fisher, Romberg Tiburon Center, SFSU

Traveling in Uncharted Waters: Seabird Indicators of Climate and Oceanic Conditions Complement Traditional Information for Managing Bay Delta Fish William Sydeman, PRBO

2:20 PM **New Methods for Diagnosing and** Delta Levee Erosion: Long-Term Monitor-2:40 PM

> the Watershed Scale, Napa River Basin, **Napa County** Eileen Weppner, Pacific Watershed Associates

Managing Upslope Sediment Sources at

Interdisciplinary Approach to Rehabili-

tating Salmon Spawning Habitat and Fluvial Geomorphic Processes in the **Central Valley**

Gregory Pasternack, UC Davis

Geomorphic Processes and Salmonid Habitat in Sulphur and Carneros Creeks, **Napa River Watershed** Sarah Pearce, SFEI

Assessing In-Stream Fish Habitat in the **Context of Watershed Stewardship and** a Broad Based Approach to Restoration and Conservation Jonathan Koehler, Napa County. RCD

4-7:00 PM

POSTER SESSION/RECEPTION--EXHIBIT HALL E

Concurrent Session—Room 205

Delta Cross Channel

Session Chair: Bruce Herbold, US EPA

Delta Salinity Response to Experiments

Wim Kimmerer, Romberg Tiburon Center, SFSU

Populations of the San Francisco Estuary

Climate Change and the Science-Policy

Interface—A Case Study of California

Effects of Climate Change on Fish

William Bennett, UC Davis

Michael Kiparsky*, UC Berkeley

Water Policy

ADJOURN

Michael Mierzwa, DWR

Got Water? Developing an Optimal

CALFED Environmental Water Account

Evaluation of DOC Concentration From

In-Delta Storage Project Islands Releases

Water Acquisition Strategy for the

Adam Diamant, EPRIsolutions, Inc.

of Delta Cross Channel Gates Position

Hydrodynamics of the Delta Cross

Channel Region

Jon Burau, USGS

Concurrent Session—Room 203

Selenium and Salinity in the San

Joaquin River and Delta

Modeling the Biogeochemical Cycle of

Understanding Selenium Bioaccumula-

tion in Shallow-Water Habitats of the

Selenium in the San Francisco Bay

Greg Cutter, Old Dominion Univ., VA

Session Chair: Mary Menconi, CVRWQCB

Concurrent Session—Room 202

Flood Plain Restoration

Session Chair: Anke Mueller-Solger, DWR

Use of a Re-Created Floodplain by

Processes Influencing Secondary

Production in a Seasonal Floodplain of

Native and Alien Fishes

Peter Moyle, UC Davis

Concurrent Session—Room 204

Wetlands: Past, Present, and Future

(continued)

Session Chair: Peter Green, UC Davis

Marsh Plain Sedimentation Processes

Interspecific Differences in Growth of

Scope for Activity in Green Sturgeon,

An Analysis of Changes in Fish Popula-

tions in South San Francisco Bay Over a

Effect of Tidal Marsh Restoration on Salt

Marsh Harvest Mice: The Need for Indices

Michael Bias, Ecosystem Restoration Sciences, Inc.

Katherine Schafer, Marine Science Institute

Acipenser medirostris Scott Lankford*, UC Davis

Thirty Year Period

of Habitat Quality

4:00 PM

4:20 PM

4:40 PM

Scirpus Species Across a Depth Gradient

within the San Francisco Estuary

Steven Culberson, DWR

8:30 AM

8:50 AM

	Jeff Hart, H.A.R.T., Inc.	the Cosumnes River Edwin Grosholz, UC Davis	Samantha Salvia, CC Water District	Delta: Importance of Trophic Pathways, Biogeochemistry, and Hydrodynamics Robin Stewart, USGS	
9:10 AM	Species Composition and Structure of Scirpus Dominated Marshes John Hunter, Jones & Stokes Associates	Food Quality and Quantity for Zooplankton in Two Contrasting Central California Floodplains Anke Mueller-Solger, DWR	Repeated Surveys by Acoustic Doppler Current Profiler for Flow and Sediment Dynamics at Delta Cross Channel Randal Dinehart, USGS	Ratios of Selenite and C Uptake in Suspended Phytoplankton: Implications for Prediction of SE Incorporation into Food Webs Stephen Baines, Stony Brook Univ., NY	
9:30 AM	Waterside Stability of Delta Levees Edwin Hultgren, Hultgren-Tillis Engineers	Effects of Landscape Level Hydrologic Variation on the Biota of the Sacra- mento River and Yolo Bypass Floodplain Ted Sommer, DWR	Delta Cross Channel Hydrodynamics and the Potential for Entrainment of Outmigrating Juvenile Salmon Michael Horn, USBR	From Water to Wildlife: Lag Time in Selenium Bioaccumulation in a Temporally Viable Flowing System William Beckon, FWS	
9:50 AM	Tidal Marsh and Floodplain Habitat Enhancement on the McCormack William- son Tract: An Evaluation of Potential Scenarios with a Hydraulic Model and GIS Christopher Hammersmark*, UC Davis	Fish Communities and Habitat Character- istics of Perennial Floodplain Ponds of the Sacramento River with Implications for the Conservation of Native Fish Frederick Feyrer, DWR	Responses of Coded-Wire Tagged Outmigrant Salmon to Delta Cross Channel Hydrodynamics Bruce Herbold, US EPA	Economic Modeling of Drainage Water Reuse and Treatment Ray Hoagland, DWR	
10:10 AM	BREAK				
10:30 AM	Building a Habitat Conversion Model for San Francisco Bay Wetlands: A Multi- Species Approach for Integrating GIS and Field Data Diana Stralberg, PRBO	Fish Assemblages in Newly-Restored Tidal and Floodplain Habitats in the Napa Creek Flood Control Project Mike Dietl, USACE	Migratory Behavior of Radio-Tagged Juvenile Salmon in the Vicinity of the Delta Cross Channel in Response to Local Hydrodynamic Conditions David Vogel, Natural Resource Scientists, Inc.	Real-Time Wetland Salinity Management in the San Joaquin Valley (part I) Mark Hanna*, UCLA	
10:50 AM	Restoration and Enhancement of Salt Ponds in San Pablo Bay and San Francisco Bay Nadine Hitchcock, CCC	Modeling Floodplain Flow on Lower Deer Creek Michael MacWilliams*, Stanford Univ.	The Movements of Adult Chinook Salmon, Outfitted with Ultrasonic Transmitters and External Spaghetti Tags, in the Delta and Delta Cross Channel Derek Stein, DFG	A GIS-Based Simulation Model for Seasonal Wetland Drainage Salinity Management Using MIKESHE (part II) Tom Heinzer, USBR	
11:10 AM	Reversing Effects of Subsidence in the Delta Steven Deverel, HydroFocus, Inc.	Morphologic Modeling for Restoration - From the Thalweg to the Floodplain Christopher Bowles, Philip Williams & Associates	On the Future of the Delta Cross Channel Studies Jon Burau, USGS	Effects of Project Operations on Salinity in South Delta Exports Barry Montoya, DWR	
11:30 AM	Projecting Future Habitat Mixes: The Influence of Sediment Dynamics on Habitat Restoration Strategies Jeremy Lowe, Philip Williams & Associates	Landscape Change in the Napa River Watershed, 1800-2002: Implications for the Restoration of In-Stream, Floodplain, and Valley Floor Habitat Robin Grossinger, SFEI		Recalibration and Refinement of a Salinity- Outflow Model for the Delta (G-Model) Richard Denton, CC Water District	
11:50 AM	LUNCH				
	Biology of Special Concern Species Session Chair: Christina Swanson, The Bay Institute and UC Davis	Fate and Effects of Organic Contaminants in Surface Waters Session Chair: Kathy Kuivila, USGS	Climate Change Session Chairs: Mike Dettinger, USGS and Dan Cayan, USGS	Water Demand Reduction and Alternative Supply Possibilities Session Chair: Mark Roberson, CALFED-Water Use Efficiency Program	
1:00 PM	Reintroduction of Endangered Soft Bird's Beak to Restored Habitat in Suisun Marsh Brenda Grewell, UC Davis	A Mass Balance Model for the Fate of PAHs in the San Francisco Estuary Ben Greenfield, SFEI	Climate Science Issues and Needs of the CALFED Bay-Delta Program Michael Dettinger, USGS	Managing Demand in California's Com- mercial, Industrial, and Institutional Sectors Christine Jeck, Pacific Institute	
1:20 PM	Multiple-Scale Predictors of Tidal Marsh Breeding Bird Distribution and Abundance in the San Francisco Estuary Hildie Spautz, PRBO	Inputs of PCBs to the San Francisco Estuary Via Point Source Discharges Donald Yee, SFEI	The Record of Natural Climate Variability Over the Central Valley Watershed Malcolm Hughes, Univ. of Arizona	Managing Demand in California's Residential Sector Dana Haasz, Pacific Institute	
1:40 РМ	Habitat Needs of the San Pablo Song Sparrow Across the Salt Marsh Tidal- Influence Gradient J. Letitia Grenier*, UC Berkeley	Dynamics of Dissolved and Particle- Bound Organic Contaminants in Northern San Pablo Bay Thomas Young, UC Davis	Paleoclimate Changes in San Francisco Estuary and its Watershed Frances Malamud-Roam, UC Berkeley	Comparing and Contrasting Benefits and Costs of Water Use Efficiency Measures in Marin County and in Chula Vista Bahman Sheikh	
2:00 PM	Temporal Trends and Spatial Hetero- geneity in Reproductive Success of Song Sparrows in San Francisco Bay and the Central Valley: Assessing the Role of Local Versus Global Influences Naday Nur, PRBO	Sediment-Associated Pesticides in the Bay-Delta Watershed and Their Toxicological Effects Donald Weston, UC Berkeley	Geomorphic Record of Climate Variability in Lowland Rivers in the Bay- Delta Watershed Joan Florsheim, UC Davis	Development of Water Use Efficiency Quantifiable Objectives to Address CALFED Goals Mark Roberson, CALFED	
2:20 PM	Integrated Monitoring to Understand the Health, Survival, and Population Dynamics of Delta Smelt William Bennett, UC Davis	Mixtures of Pesticides Additive? More or Less Kimberly Parks*, Southern Illinois Univ	Climate Variability - A Regional Stress on California's Water and Power Systems Daniel Cayan, UC San Diego	Reference Evapotranspiration Equations for California Bekele Temesgen, DWR	
2:40 PM		BREAK			
3:00 PM	Inter-Specific Differences in the Feeding Ecology Osmerids in the Low Salinity Zone of the San Francisco Bay-Delta Estuary James Hobbs*, UC Davis	Investigating Causes of Toxicity to Algae in Central Valley Waterways: Modified Study Design & Method Development Karen Larsen, CVRWQCB	Potential Effects of Climate Change on the Sacramento/San Joaquin Watershed and the San Francisco Estuary Noah Knowles, UC San Diego	Membrane Technology: A Key Element in Expanding the Use of Nonconven- tional Water Sources in California Fethi Benjemaa, DWR	
3:20 РМ	Application of Genetic Markers for Species Identification and Population Structure Analysis of Green Sturgeon (Acipenser medirostris) Joshua Israel*, UC Davis	Habitat Condition and Benthic Community Assemblages in Agriculture-Dominated and Effluent-Dominated Waterbodies of Sacramento River Watershed Robert Holmes, CVRWQCB	Distributed Climate Change Hydrologies for Modeling Water Management in California Tingju Zhu*, UC Davis	Linkage of CALSIM II CVP/SWP Planning Simulation Model with the Daily Time- Step Delta Operations Model for In- Delta Storage Investigations Daniel J. Easton, DWR	
3:40 РМ	Investigations into the Effects of Chronic Stress on Swimming Performance, Standard Metabolic Rate and Metabolic Scope for Activity in Green Sturgeon,	Contamination Levels in Piscivorous Birds in the South San Francisco Bay Cheryl Strong, SFBBO	Yogi Berra Was Right: Predicting the Effects of Climate Change on the San Francisco Estuary Wim Kimmerer, Romberg Tiburon Center, SFSU	Conjunctive Use Opportunities for California: An Integrated Economic and Operations Perspective Marion Jenkins. UC Davis	

Water Quality Effects of Pesticides Used in

ment Alternatives and Off-Site Movement

Orchard Agriculture: Evaluating Manage-

Managing and Analyzing Quality of

Year-Round Runoff from Annual

Cropping Systems in California

Paul Robins, Yolo County RCD

Frank Zalom, UC Davis